

DIRECTOR CHUCK GIPP

January 30, 2018

DENNIS & BARB MASHEK 1701 253<sup>RD</sup> AVENUE CALMAR IOWA 52132

SUBJECT: Animal Feeding Operation (AFO) Compliance Inspection for:

Mashek Dairy, County - Winneshiek, Facility #68162

Dear Mr. & Mrs. Mashek:

Attached is a copy of the report resulting from the Animal Feeding Operation (AFO) facility compliance inspection conducted on January 26, 2018.

Your attention is directed to the recommendations portion of the report.

If you have any questions, or feel this report does not represent the conditions at your facility, please call me at 563/927-2640.

The cooperation and assistance provided by you and Josh Mashek during the inspection is appreciated.

Sincerely,

c:

Chris Gelner, Environmental Specialist

christopher.gelner@dnr.iowa.gov

Field Services and Compliance Bureau

-Stephen Pollard, U.S. EPA Region 7, WWPD/WENF, 11201 Renner Blvd., Lenexa, KS 66219

-Ken Hessenius, FO#3, AFO Enforcement Coordinator, Spencer, IA

enc: -AFO Facility Inspection Report

-MMP Inspection Form

-Animal Feeding Operation (AFO) Regulatory Status Form

-Aerial Photos of Site

Efile: 96 AFO Calmar 68162 Mashek Dairy 012618 Inspection csg

FIELD OFFICE 1, 909 W MAIN ST STE 4, MANCHESTER IA 52057

Phone: 563-927-2640 <u>www.iowadnr.gov</u> Fax: 563-927-2075

07/2014

## IOWA DEPARTMENT OF NATURAL RESOURCES AFO INSPECTION REPORT

	FACIL	ITY DESCRI	PTION				
FACILITY LOCATION	Facility: Mashek Dairy Facility						
	Address: 1701 253rd Avenue	Idress: 1701 253 <sup>rd</sup> Avenue City: Calmar		State: IA Zip: 52132			
	PLSS: Section 33, Calmar Township (T97N, R09W), Winneshiek County						
OWNER	Name: Dennis & Barb Mashek						
	Address:	c	ity:	State: Zip:			
ANIMAL HOUSING TYPE	☐ Confinement ☐ Oper	Lot 🛭	☐ Combined (Confiner	ment & Open Lot)			
ANIMAL INFORMATION	Animal Type(s) Capacity Current Head Num		Number of Bldgs./Pens				
	Dairy – Mature Conf. Dairy – Immature Conf. Dairy – Immature Openlot	445 140 175	445 140 175	5/2			
	Date of Construction: 1928		Dates of Expansi	on: Vairous			
100 C	INSPECT	ION INFORM	VIATION				
INSPECTION DATE	Tels 1						
PERSONS	This Inspection 01/26/2018  Name: Dennis Mashek	·		Last Inspection: N/A			
INTERVIEWED	Name: Josh Mashek			Title: Facility Contact			
NEAREST	Name: Josh Mashek Title: Contact  Stream Name: Unnamed Tributary to Turkey River						
WATERCOURSE	Description of Flow Path: West al						
OBSERVATIONS	Nutrient Management:	ANCE SUMI	WARY				
	□CNMP □NMP □Other □No formal plan						
	Manure Stockpiling:	Mortality M	lanagement:	Runoff from Feed Storage:			
			□No outdoor feed storage area □Discharge from feedstock storage area is controlled □Feed storage is located in an uncontrolled area				
	Clean Water Diverted:  ☐Yes ☑No		to a Water of the U.S. de Conveyance: es ⊠No	Direct Animal Contact with Waters of the U.S.:  ☐Yes ☐No			
	Adjacent Facilities (by same owner/operator): Confinement Open Lot None Evidence of Discharges: Yes No						
NPDES PERMIT	The facility, as observed during the permit. NPDES permit is required:	inspection, w	vas a Medium AFO an	d did not need an NPDES			
COMPLIANCE STATUS	This facility appeared to be in cominspection. Actual conditions may reacility is in compliance: ⊠Yes	pliance with Ic	wa's environmental re	gulations at the time of the d maintenance of the facility.			
UTHENTICATION	Inspector: This Color	Date: 1/29/18	Reviewer:	eige Date: 1/2 9/18			

### IOWA DEPARTMENT OF NATURAL RESOURCES AFO INSPECTION REPORT

#### **FACILITY EVALUATION**

#### Facility

This facility consists of (3) confinement buildings housing a capacity of 445 mature dairy cows and 140 immature dairy heifers. The facility also has a capacity to house 175 immature dairy heifers in open feedlot pens. Manure from the confinements is stored in a circular concrete pit and manure from the open feedlots is stored in deep bedding pack before hauling to the fields. Manure structures were observed during the inspection and no discharge was noted. Mortalities are disposed of by composting. Mr. Dennis Mashek and Mr. Josh Mashek were present and interviewed during the inspection.

#### Manure Management Plan (MMP)

The MMP and manure application records were reviewed during the inspection. No deficiencies were noted.

#### Feedstuffs

During the inspection it was noted that all feedstuffs are stored in a commodity building or under plastic to reduce runoff and potential violations of state water quality standards. Be aware that feedstocks have the potential to cause water quality violations and these areas should be monitored regularly for discharges. Paragraph 567 Iowa Administration Code 61.3(2) outlines general surface water quality criteria and requires that all surface waters be free from wastewater discharges or agricultural practices that produce stream conditions with objectionable color, odor or other aesthetically objectionable conditions.

#### Open Feedlot Stockpiling

Mr. Mashek pointed out that the east calf open feedlot building is scraped and temporarily stockpiled to the east of the building. This area appears to have some run-on issues. It is recommended that this area be redesigned to prevent run-on to the stockpile and run-off from the stockpile from leaving the site. No evidence of waste reaching a water of the state was observed.

#### **Dead Animal Composting**

Dead animals are disposed of by composting. During the facility inspection the uncovered compost area was observed. Wood shavings are used as bulking agent. No evidence of compost leachate runoff leaving the compost area or ponding water in the area was observed. As a reminder, livestock mortalities must be incorporated into the composting process within 24 hours after death. The compost must be maintained with an adequate base layer (from 12 to 24 inches thick, depending on the size and number of mortalities), with 6 to 12 inches between carcasses, and an additional 12 inches of cover material around carcasses at all times. Cover should be maintained to control runoff and to prevent access by scavenging animals. This part of the operation should be inspected frequently. It appears that some run-on water is entering the compost area. It is recommended that this area be evaluated to limit run-on and therefore run-off from the compost facility. Additional recommended resources are included.

#### **Bio-Security**

Prior to the inspection, bio-security was discussed with Mr. Mashek and it was agreed upon that DNR bio-security SOP would be followed. DNR bio-security SOP was followed during the inspection.

#### RECOMMENDATIONS

- Regularly walk around the facility to monitor for discharges and needed repairs.
- Contact Iowa State Extension Ag Engineer, NRCS, or a private consultant to discuss potential risks and mitigation
  options particularly with the stockpile area and the compost area (contact information attached).

#### SUMMARY

- The facility, as observed, was considered a Medium AFO based on the capacity of animals at the animal feeding operation.
- No discharge was observed during the inspection and no evidence of past discharge was observed.
- No NPDES permit is required at this time.

# PARA

### IOWA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL SERVICES DIVISION



Field Office #1 909 W Main Ste 4 Manchester IA 52057 Field Office #2 2300 15<sup>th</sup> St SW Mason City IA 50401

Chris Gelner Col

SPECIALIST NAME

Field Office #3 1900 N Grand Ave Spencer IA 51301 712-262-4177 Field Office #4 1401 Sunnyside Ln Atlantic IA 50022 712-243-1934 Field Office #5 7900 Hickman Rd Ste 200 Windsor Heights IA 50324 515-725-0268 Field Office #6 1023 W Madison Washington IA 52353

		Manure M		712-262-4177 Plan Compliance	712-243-1934 Review – No	515-725-0268 nsales of Manure		319-65	3-2135
8	/isit Date nt: 01/26/2018 N/A	Number of A	ınimals:	Animal Units: <b>763</b>	N-based☐ P-based ⊠	Facility Location County: Winneshi		cility ID 681	
Facil Pre-v Post-	lity Tier Status isit: visit:	1 2 3	Violation(s) C	omments					
	cal Violation(s)  inical Violation(s)		When the second						••••••••••••••••••••••••••••••••••••••
Facil	ity Name <u>Mashek</u>	Dairy	Pers	on(s) Contacted	Dennis Mashek	Phone	563/56	2-3763	i partir de la companya de la compa
Addı	ity Owner Information Tess of Facility: 170 Town or operate an	01 253 <sup>rd</sup> Avenu	ie, Calmar, Iov	va 52132					
	P Contents					7 140		1	T
a.	Calculations to dete			g met for the follow	ng items?		Yes	No	N.A
b.	Total nitrogen and p	-			E 17/E\\\)			<del>                                     </del>	
<u>с.</u>	Optimum crop yield	<del></del>	-		2.T1(2)]L			+++	
d.	Manure application							++	ㅏ님
e.	Location of manure		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	The second secon	?			╁┼	$+ \exists$
f.	Estimate of annual a							H	十片
g.	Methods, structures					ion (conservation			1 1
	plans for highly eroc			Common and the common filter and an arrange of the common filter and a second of the common filter and a sec	and traiter points	ion footbol ration		lп	$\perp$ $\sqcap$
h.	Does P Index no. ger	***************************************		lex no. in plan? [65.1	7(17)]			H	十一
i.	Are proper soil samp	oling methods b	peing used to d	alculate P Index?[65	.17(16)]			十一一	T
Recor	ds Review	Are requi	rements being	met for the following	g items?		Yes	No	N.A.
j.	Copy of the current								
k.	Records kept for 5*	years (or crop r	rotation if long	er) maintained [65.1	7(13)]?				
I.	Methods of applicat	ion [65.17(13)a	1]?						
m.	Dates when manure	************************************							
n.	Location of manure			res [65.17(13)c]?					
0.	Manure application				989)31960-biddiviAdda-C. a i o				
р.	Statement of Intent	for fields not o	wned or rente	d [65.17(13)e]					
	Observations of Manu								
	mal Disposal			met for the followin		Annual Control of the	Yes	No	N.A.
q.	Manure storage stru					?			
r.	Dead animals dispos Type: Compost ⊠						KZ	г	
Vicerre	sion Items:	Incinerato		al Render	ng [_]				<u> </u>
1		<del></del>	following item		Anna de Mariannia de la compania de		Yes	No	N.A.
s. t.	Manure release notif Deficiencies, violation	~~~		03.2(3)][	,			᠆⊨	
u.	Recommendations, in			l iccupe?				<del>-  -  </del> -	<del>      -     -                          </del>
v.	Manure applicator is							$\dashv$	#
w.	Proper manure applic			wine/Hullingly	***************************************			$\dashv$	H
management des			and the second second second second	na tha carina	I fall by NEIA	lumpian Camilaa 1		<u> </u>	LLL.
VIIII	ents Manure appl	ication is cor	iaucteu uuri	ng me spring and	I I AII DY IVEIA F	umping Service, I	nc – CIVI:	S 1982.	

**ON-SITE CONTACT** 

DATE 01/26/2018

**Dennis Mashek** 



### **Animal Feeding Operation (AFO) Regulatory Status**

Facility Name:	Mashek Dairy	Facility ID: 6816	52	County:	Winneshiek
	Large CAFO – Discharging – NF Large CAFO – No discharge – N Large CAFO – Has NPDES Perm Medium CAFO – NPDES Permit Medium AFO – No NPDES Requ Medium AFO – Has NPDES Permit Designated CAFO – NPDES Permit Small AFO – No NPDES Permit	lo NPDES Permit Re it : Required uired mit mit Required			
Please note that t	on was made based on conditions and obsections in the regulatory status of the facility can chard during the inspection.	ervations made at t inge if conditions at	he time of th t the facility o	e inspectio change or a	n on 01/26/2018. re different from
Inspector:	Vin Gelra		Date:/	129/8	

### Regulatory Definitions of Large CAFOs, Medium CAFOs, and Small CAFOs

These regulatory definitions are from the Code of Federal Regulations (CFR), implementing the federal Clean Water Act.

A Large CAFO confines at least the number of animals described in the table below.

A Medium CAFO falls within the size range in the table below and either:

- "(A) Pollutants are discharged into waters of the United States through a man-made ditch, flushing system, or other similar man-made device; or
- (B) Pollutants are discharged directly into waters of the United States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation." 40 CFR 122.23(b)(6)(ii)

If an operation is found to be a significant contributor of pollutants to waters of the United States, the permitting authority may designate a medium-sized facility as a CAFO as provided in 40 CFR 122.23(c).

A Small CAFO confines the number of animals listed in the table and has been designated as a CAFO by the permitting authority after determining that it is a significant contributor of pollutants to waters of the United States as provided in 40 CFR 122.23(c).

Animal Sector	Size Thresholds (number of animals)			
	Large CAFOs	Medium CAFOs	Small CAFOs	
cattle or cow/calf pairs	1,000 or more	300 – 999	less than 300	
mature dairy cattle	700 or more	200 - 699	less than 200	
veal calves	1,000 or more	300 - 999	less than 300	
swine (weighing over 55 pounds)	2,500 or more	750 -2,499	less than 750	
swine (weighing less than 55 pounds)	10,000 or more	3,000 – 9,999	less than 3,000	
horses	500 or more	150 – 499	less than 150	
sheep or lambs	10,000 or more	3,000 - 9,999	less than 3,000	
turkeys	55,000 or more	16,500 – 54,999	less than 16,500	
chickens other than laying hens (other than a liquid manure handling system)	125,000 or more	37,500 – 124,999	less than 37,500	
laying hens (other than a liquid manure handling system)	82,000 or more	25,000 - 81,999	less than 25,000	

Mashek Dairy 1701 253<sup>rd</sup> Avenue Calmar, Iowa 52132 Facility ID# 68162



